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UMTA-
79-27
V.4

NO. UMTA-MA-06-0025-79-6,IV

.RV ENGINEERING TESTS AT DEPARTMENT OF TRANSPORTATION TRANSPORTATION TEST CENTER
FINAL TEST REPORT
Volume IV - Data Logs

Prepared by

Boeing Vertol Company
Surface Transportation Systems
Philadelphia, PA 19142

DEPARTMENT OF TRANSPORTATION
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FINAL REPORT

DOCUMENT IS AVAILABLE TO THE PUBLIC THROUGH THE NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VIRGINIA 22161

Transportation
3 Systems Center

Prepared for

U.S. DEPARTMENT OF TRANSPORTATION
URBAN MASS TRANSPORTATION ADMINISTRATION
Office of Technology Development and Deployment
Office of Rail and Construction Technology
Washington, D.C. 20590

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16. Abstract

In May 1973, Boeing Vertol Company was awarded a contract to build Light Rail Vehicles to a specification sponsored by Department of Transportation's Urban Mass Transportation Administration, and identified a Standard Light Rail Vehicle (SLRV).

Engineering testing on the SLRV was conducted by Boeing Vertol Company in accordance with the General Vehicle Test Plan GSP-064 at the Transportation Test Center, Pueblo, Colorado. The tests were conducted in conjunction with the Qualification Testing of three SLRV Production Pilot Cars (SF-0002, SF-0003, and MB-0002).

This report presents the results of the series of tests conducted in accordance with GSP-064. Volume I contains a description of the SLRV Test Program and the vehicle, and a summary of the test results; Volume II, Performance and Power Consumption Test Data; Volume III, Ride Quality, Noise, and Radio Frequency Interference Test Data; and Volume IV, a log of all tests collated by test objective and test vehicle.

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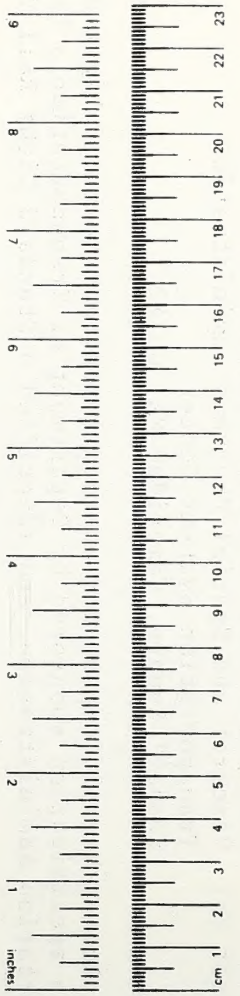
METRIC CONVERSION FACTORS

Approximate Conversions to Metric Measures

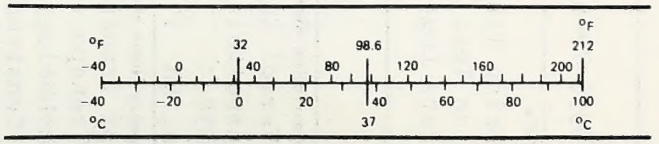
Symbol	When You Know	Multiply by	To Find	Symbol
		LENGTH		
in	inches	* 2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
		AREA		
in^2	square inches	6.5	square centimeters	cm^2
ft^2	square feet	0.09	square meters	m^2
yd^2	square yards	0.8	square meters	m^2
mi^2	square miles	2.6	square kilometers	km^2
	acres	0.4	hectares	ha
		MASS (weight)		
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
		VOLUME		
tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft^3	cubic feet	0.03	cubic meters	m^3
yd^3	cubic yards	0.76	cubic meters	m^3
		TEMPERATURE (exact)		
°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

*1 in = 2.54 cm (exactly). For other exact conversions and more detailed tables, see NBS Misc. Pub. 286, Units of Weights and Measures, Price $2.25, SD Catalog No. C13.10:286.



Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
		LENGTH		
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
		AREA		
cm^2	square centimeters	0.16	square inches	in^2
m^2	square meters	1.2	square yards	yd^2
km^2	square kilometers	0.4	square miles	mi^2
ha	hectares (10,000 m^2)	2.5	acres	
		MASS (weight)		
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	
		VOLUME		
ml	milliliters	0.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m^3	cubic meters	35	cubic feet	ft^3
m^3	cubic meters	1.3	cubic yards	yd^3
		TEMPERATURE (exact)		
°C	Celsius temperature	9/5 (then add 32)	Fahrenheit	°F



CONTENTS

Section		Page
A	Total Test Log on Car SF0002	A–1
B	Total Test Log on Car SF0003	B–1
C	Total Test Log on Car MB0002	C–1
Appendix I – Data Log – Collated by GVTP Test Number		I–1
Appendix II – Data Log – Collated by Magnetic Tape Number		II–1

A. TOTAL TEST LOG ON CAR SF0002

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: PERFORMANCE SHEET 1 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/8/75	1								
	2	ACCEL	100%	0-50	AWO	SF0002	N		
		F.S. BRAKE	↓	50-0	↓	↓	N		
	3	FRICTION	↓	30-0	↓	↓	N		
	4	EMERGENCY	↓	30	↓	↓	S		
10/14/75	2								
	1	CAB SIG ACCEL	100%	0-50	AWO	SF0002			
	2	T.V. DEMO	↓	↓	↓	↓			
	2	ACCEL	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	N	660 V.	
	4	↓	↓	↓	↓	↓	S	↓	
	5	↓	↓	↓	↓	↓	N	↓	
10/15/75	3								
	1	CAB SIG. ANTENNA	↓	0-20	AWO	SF0002	N		
	2	↓	50%	↓	↓	↓	N	↓	
	3	↓	25%	↓	↓	↓	N	↓	
	4	↓	50%	↓	↓	↓	N	↓	
	5	↓	50%	↓	↓	↓	N	↓	
	6	↓	50%	↓	↓	↓	N	↓	
	7	↓	100%	0-20	↓	↓	N	↓	
	8	↓	25%	0-10	↓	↓	N	↓	
	9	↓	25%	0-20	↓	↓	N	↓	
	10	↓	50%	↓	↓	↓	N	↓	
	11	↓	100%	0-20	↓	↓	N	↓	
	12	SPEED	↓	20	↓	↓	N	↓	
	13	CALIB	↓	30	↓	↓	S	↓	
	14	↓	↓	30	↓	↓	N	↓	
	15	↓	↓	30	↓	↓	S	↓	
	16	↓	↓	40	↓	↓	N	↓	
	17	↓	↓	40	↓	↓	S	↓	
	18	↓	↓	50	↓	↓	N	↓	
	19	↓	↓	50	↓	↓	S	↓	
	20	ACCEL	100%	0-50	↓	↓	N	↓	
10/16/75	4								
	1	CONST. SPEED	100%	45	AWO	SF0002	N		
	2	↓	↓	45	↓	↓	S		
	3	SPEED SENSOR	↓	0-30	↓	↓	N		
	4	CONST SPEED	↓	45	↓	↓	N		
	5	↓	↓	45	↓	↓	S		
	6	ACCEL	↓	0-36	↓	↓	S		
	7	-	-	-	-	-			
	8	ACCEL	↓	0-36	↓	↓	S		
	9	↓	↓	0-50	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 2 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
10/14/75	4								
	10	ACCEL	100 %		AWO	SF0002	N		
	11	F.S. BRAKE					S		
	12	F.S. BRAKE					N		
	13	FRICTION					N		
	14	FRICTION					S		
	15	DYNAMIC					N		
10/20/75	5								
	1	ACCEL	100%	0-30	AWO	SF0002	N		TAPE A-1, B-1
	2			0-30			S		
	3		50%	0-30			S		
	4 T	F.S. BRAKE	100 %	20			S		
	5		50 %	20			S		
	6		100 %	30			S		
	7		50 %	30			S		
	8		100 %	50			S		
	9		50 %	50			S		
	10		100%	50			N		
	11	FRICTION	100 %	20			S		
	12		50 %	20			S		
	13		100 %	30			S		
	14		50 %	30			S		
	15	F.S. BRAKE	100 %	40			S		
	16	FRICTION	100 %	40			S		
	17		50 %	40			S		
	18		100 %	50			S		
	19		50 %	50			S		
	20		100 %	50			N		
	21	EMERGENCY	100 %	30			S		
10/21/75	6								
	1 T	EMERGENCY	100%	30	AWO	SF0002	S		TAPE A-1, B-1
	2 T			30			S		
	3			30			S		
	4			30			S		
	5			30			S		
	6			50			S		
	7			30			N		
	8			30			N		
	9 T	DYNAMIC	100%	20			S		
	10		50	20			S		
	11		100	30			S		
	12		50	30			S		
	13		100	40			S		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 3 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/21/75	6 14	DYNAMIC	50 %	40	AWO	SF0002	S		TAPE A-1, B-1
	15	↓	100 %	50	↓	↓	S		
	16		100%	50			S		
	17		50 %	50			S		
	18	SPEED	100%	20			N		
	19	CALIB	↓	20			S		
	20	↓		30			N		
	21			30			S		
	22			40			N		
	23			40			S		
	24			45			N		
	25			50			S		
	26	TRACK		10			S		
	27	BRAKE		20			S		
	28	↓		30			S		
	29			40			S		
	30			50			S		
	31		↓	50	↓	↓	N		
10/22/75	7 1	ACCEL	100 %	0-50	AWO	SF0002	N	570	
	2	↓	↓	0-50	↓	↓	S		
	3			0-50			N		
	4			0-50			S		
	5			0-50			N		
	6			0-50			S		
	7	DYNAMIC	100 %	30			N		
	8	↓	↓	30			S		
	9			30	↓	↓	N		
10/24/75	8 1	ACCEL	100%	0-50	AWO	SF0002	N		
	2	ACCEL	↓	0-50	↓	↓	S		
	3	DRIFT		30-0			N		
	4	↓		30-20			S		
	5			30-20			N		
	6	BLENDED		30			S		
	7	FRICTION		30			S		
	8	↓		30			N		
	9			30			S		
	10			30			N		
	11			30			N		
	12		↓	30	↓	↓	I		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 4 OF 30

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
10/29/75	9 1	ACCEL	100	0-50	AW0	SF0002	N		No CEC
	2	↓	↓	0-50	↓	↓	S		
	3			0-50			N		
	4			0-50			S		
	5						N		
	6	ACCEL	↓	0-35			S		
	6	BLENDED	50	35-0			S		
	7	↓	50	35-0			S		
	8	ACCEL	100	0-35			S		
	8	BLENDED	100	35-0			S		
	9	ACCEL	100	0-35			S		
	9	BLENDED	100	35-0			S		
	10	ACCEL	100	0-35			N		
	10	BLENDED	50	35-0			N		
	11	ACCEL	100	0-35			N		
	11	BLENDED	100	35-0			N		
	12	ACCEL	100	0-35			N		
	12	EMERGENCY	100	35-0			N		
	13	EMERGENCY	100	35-0			N		
	14	STEADY STATE	↓	50			S		
	15	ACCEL					N		
	15	EMERGENCY			↓	↓	N		
	10	SKIPPED							
11/3/75	11 1	F.S. BRAKE	50%	35	AW 2	SF0002	N		
	2	↓	100%	35	↓	↓	N		
	3		50%	35			S		
	4		100%	35			S		
	5	ACCEL DECEL	100	50			N		
	6		↓	50			S		
	7	EMERGENCY		35			S		
	8	↓		35			N		
	9			35			N		
	10			35			S		
	11	↓	↓	35			N		
	12	F.S. BRAKE	25%	35			S		
	13	↓	75%	35			S		
	14		25%	35			N		
	15	↓	75%	35			N		
	16	ACCEL	100%	0-50			N		
	17	ACCEL	100%	0-50	↓	↓	S		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 5 OF 36

DATE	TEST NO. REC NO	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/3/75	11 18	ACCEL	100%	0-50	AW2	SF0002	N		
	19			0-50			S		PANOGRAPH BOUNCE
	20			0-50			N		
	21			0-50			S		
	22	F.S. BRAKE		30			N		
	23			30			S		
	24			30			N		
	25			30.5			S		
11/24/75	12 1	CAB ACCEL	SIGNAL 100%	INTER 0-20	FERENCE AW2	SF0002			100 AMPS
	2								200 AMPS
	3								100 AMPS
	4								200 AMPS
	5								100 AMPS
	6								200 AMPS
	7			0-50			N		
	8						S		
	9						N		
	10						S		
	11						N		
	12	ACCEL		0-50			S		
	13	FRICTION BRAKE		47			S		
	14			37			S		
	15			48			S		
	16			46			N		
	17			45			N		
	18			29			N		
	19	TRACK BRAKE		30			S		
	20			30			S		
	21			31			S		
	22			30			N		
	23			30			N		
	24			30			N		
11/26/75	13 1	ACCEL	100%	0-50	AW2	SF0002	N		
	2						S		
	3						N		
	4						S		
	5						N		
	6						S		
	7						N		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 6 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/26/75	13 8	FRICTION BRAKE	100%	30	AW2	SF0002	S		
	9	↓	↓	30	↓	↓	N		
	10			50			S		
	11			48			N		
12/2/75	14 1	ACCEL	100%	0-50	AW2	SF0002	S		
	2	↓	↓	"	↓	↓			
	3			.					T.E. PAUSES
	4								
12/3/75	15 1 T	SPEED CALIB	100%	30	AW2	SF0002	N		TAPE A-1, B-1
	2 T	↓	↓	30	↓	↓	S		
	3 T			30			N		RESET WHEEL WEAR POT
	4			30			S		
	5 T			40			N		
	6			40			S		
	7			50			N		OVERSPEED
	8			48			S		T.E. PAUSES
	9			48			N		
	10 T			30			S		
	11	ACCEL		0-50			N		DIAGNOSTIC GARRETT
	12	↓		↓			S		PAN. BOUNCE
	13						N		
	14						S		PAN BOUNCE
	15						N		INST. RECONNECTED
	16						S		
	17			0-50			N		
12/8/75	16 1	CAB SIG	100%		AW2	SF0002	N		
12/9/75	17 1 THRU 50	CAB SIGNAL	100%		AW2	SF0002			
		↓	↓		↓	↓			
12/11/75	18 1	SPEED CALIB	100%	30	AW2	SF0002	N		
	2	↓	↓	30	↓	↓	S		
	3			40			N		
	4			40			S		
	5			50			N		OVERSPEED
	6			50(48)			N		
	7			48			S		

SF0002

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE & CAB SIGNAL

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
12/11/75	18 8	SPEED	100%	20	AW2	SF0002	N		
	9	CALIB		20			S		
	10	ACCEL		0-50			N		
	11			0-50			S		
	12			0-50			N		
	13	↓	↓	0-50	↓	↓	S		
12/12/75	19 1	2 CAR	100%		AW2 & AW0	SF0002	S		JERKING
	2	TRAIN				&	N		PROP DISABLE
	3			35		SP0003	S		
	4			50			N		
	5			50			S		
	6			50			N		T.V. CREW ON SF0003
	7			50			S		
	8	↓	↓	50	↓	↓	N		T.V. CREW ON SF0002
12/12/75	20	CAB SIGNAL	100% 50%		AW2	SP0002			
12/15/75	21 1 THRU 16	CAB SIGNAL			AW2				TEST 4-1
12/18/75	22 1	SPEED CALIB	100%	20	AW2	SF0002	N		
	2			40			S		
	3	ACCEL		0-50			N		
	4						S		ARMATURE CURRENT 720 AMPS
	5						N		
	6						S		T.E. PAUSES
	7						N		ADJ. OF HALL SENSOR
	8						S		PANO. BOUNCE & HALL SENSOR ADJ.
	9	↓	↓	↓	↓	↓	N		
12/19/75	23 1	ACCEL	100%	0-50	AW2	SF0002	S		TAPE A-2, B-2
	2						N		T.E. PAUSES
	3						S		NO PAUSE
	4						N		TWO PAUSES
	5 T						S		NO PAUSE
	6						N		TWO PAUSES
	7		75%				S		NO PAUSE
	8		75%				N		
	9		50%				S		
	10 ↓	↓	50%	↓	↓	↓	N		↓

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 8 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
12/19/75	23								TAPE A-2, B-2
	11 T	ACCEL	25%	0-40	AW2	SF0002	S		
	12	↓	25%				N		
	13	ACCEL	100%	0-50			N		SF0003 ECU CARDS A9,10,11,12 & A13 INSTL. SF0002 REPLACED.
	14	F.S. BRAKE		20 NO GOOD					
	15 T	↓		20			S		
	16	FRICTION		30			S		
	17 T	F.S. BRAKE		20			N		
	18	↓		20			N		
	19		50%	20			N		
	20		100%	30			S		
	21		100%	30			S		
	22		50%	30			S		
	23		100%	40			N		
	24		50%	40			N		
	25		100%	50			S		
	26		100%	50			N		
	27		50%	50			S		
	28		100%	20			S		
	29		50%	20			N		
	30	FRICTION	50%	20			N		
	31		100%	30			N		
	32		50%	30			S		
	33		100%	40			S		
	34		50%	40			N		
	35		100%	50			S		
	36		100%	50			N		
	37 T	↓	50%	50			S		
	38	SPEED	100%	40			N		
	39	CALIB	100%	30	↓	↓	S		
12/22/75	24								THREE T.E. PAUSES AND BOUNCE
	1 T	ACCEL	100%	0-50	AW2	SF0002	S		TAPE A-2, B-2
	2	↓		0-50			N		
	3	TRACK BRK		10			S		
	4			20			S		
	5			30			S		
	6			40			N		
	7			50			S		
	8	↓	↓	20			S		
	9	DYNAMIC	100%	20			N		
	10		50%	20			N		
	11		100%	30			N		
	12	↓	50%	30	↓	↓	S		

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: PERFORMANCE SHEET 9 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
12/22/75	24 13 T	DYNAMIC	100%	40	AW2	SF0002	S		
	14		50%	40			N		
	15		100%	50			S		
	16		100%	50			N		
	17		50%	50			S		
	18	EMERGENCY	100%	50			N		
	19			50			S		
	20			40			N		
	21			30			N		
	22			20			N		
	23			10			S		
	24			30			S		
	25			40			S		
	26	SPEED		50			N		
	27	CALIB		50			S		
	28			40			N		
	29			40			S		
	30			30			N		
	31			30			S		
	32			20			N		
	33			20			S		
	34			10			N		
	35			10			S		
	36			10			N		
12/23/75	25 1 T	ACCEL	100%	0-50	AW2	SF0002	S		TAPE A-2, B-2
	2 T						N		NOM. V 550 VOLTS
	3						S		550 VOLTS
	4 T						N		MIN V 490 VOLTS
	5 T						S		485 VOLTS
	6						S		485 VOLTS
	7						N		MAX V 685 VOLTS
	8 T						S		700 VOLTS
	9 T						N		700 VOLTS
	10 T						S		700 VOLTS
	11						N		NOM V 550 VOLTS
1/5/76	26 4	DRIFT	100%	50-37	AW2	SF0002	N		TAPE A-3 B-3
	5	TEST		50-38			S		
	6			37-22			N		
	7			38-25			S		
	8			22-0			N		
	9			25-0			S		

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 10 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/5/76	26 10	JERK LIMIT ACCEL FROM COAST	100%		AW2	SF0002	N		
	11	"					N		
	12	DECEL FROM COAST		30			N		
	13	DECEL FROM DRIVE		30			N		
	14	EMERGENCY		30			N		
	15	ACCEL FROM COAST					S		
	16	"					S		
	17	DECEL FROM COAST		30			S		
	18	DECEL FROM DRIVE		30			S		
	19	EMERGENCY		30			S		
	1	SPEED CAL		30			S		
	2			30			N		
	3			30			S		
1/7/76	27		100%		AW3	SF0002			"A" CAR VERTICAL OSCILLATION OF 3-4 CPS DUE TO AW3 WEIGHT.
1/9/76	28 1	EMERGENCY	100%	30	AW3	SF0002	N		
	2			50			N		
	3			50			N		
1/12/76	29 1 THRU 18	CAB SIGNAL TEST 4-2			AW2	SF0002			
	19 THRU 23	TEST 4-1							
	24 THRU 42	TEST 4-2A							
	43 THRU 50	TEST 4-3							
1/13/76	30 1 THRU 9	CAB SIGNAL TEST 4-3			AW2	SF0002			
	10 THRU 28	TEST 4-3A							
	29,30	TEST 4-1							
	31,32	TEST 4-3A							
	33 THRU 42	TEST 4-3B							
	43 THRU 46	TEST 3-1							

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: CAB SIGNAL & PERFORMANCE

SHEET 11 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/14/76	31 1 THRU 23	CAB SIGNAL TEST 4-4			AW 2	SF0002			
	24 THRU 26	TEST 4-4A							
1/15/76	32 1 THRU 19	CAB SIGNAL ACCEL			AW2	SF0002			
1/16/76	33 1 THRU 17	CAB SIGNAL			AW2	SF0002 SF0003			
1/19/76	34 1 THRU 36	CAB SIGNAL			AW2	SF0002			
1/21/76	35 1	ACCEL	100 %	0-50	AW3	SF0002	S		TAPE A-3, B-3
	2						N		
	3						S		
	4						N		
	5	EMERGENCY		50-0			S		DEADMAN RELEASE
	6			33			S		
	7			20			S		
	8			11			S		
	9			50			N		
	10			30			N		
	11			21			N		
	12			10			N		
	13			40			S		
	14			29			S		
	15	N.G.		-					
	16	EMERGENCY		39			N		
	17			28			N		PULL HANDLE
	18	N.G.		-					
	19	EMERGENCY		28			N		
	20			28			S		
	21			29			S		
	22			28			S		
	23			28			N		
	24			29			N		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 12 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
1/21/76	35 25T	TRACK BRAKE	100%	50	AW3	SF0002	N		TAPE A-3, B-3
	26			28			N		
	27			10			N		
	28			20			N		
	29			48			S		
	30	N.G.		30			S		
	31	TRACK BRAKE		10			S		
	32			38			N		
	33			21			N		
	34			30			N		
	35			38			S		
	36			20			S		
	37			29			S		
	38			29			N		
	39	FRICTION BRAKE		48			N		
	40			29			N		
	41			20			N		
	42			48			S		
	43			29			S		
	44			20			S		
	45			38			N		
	46			38			S		
	47	SPEED CALIB		48			N		
	48			48			S		
	49			29			N		
	50			29			S		
1/22/76	36	NO DATA	100%		AW3	SF0002			
1/23/76	37 1	ACCEL	100%	0-50	AW0	SF0002	S		TAPE A-3, B-3
	2						N		
	3						S		
	4T						N		
	5						S		
	6						N		
	7		50%				S		
	8		50%				N		
	9	F.S. BRAKE	100%	30			S		
	10			30			N		
	11			20			S		
	12			30			S		
	13			40			N		
	14			30			N		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
1/29/76	37 15	F.S. BRAKE	100%	40	AW O	SF0002	S		TAPE A-3 B-3
	16		100%	50			N		
	17		100%	50			S		
	18		50%	30			N		
	19			20			N		
	20			30			S		
	21			20			S		
	22			50			N		
	23			50			S		
	24	FRICTION	100%	20			S		
	25			20			N		
	26			30			N		
	27			30			S		
	28			40			S		
	29			40			N		
1/26/76	38 1	FRICTION BRAKE	100%	30	AWO	SF0002	S		TAPE A-4, B-4
	2		100%	30			N		
	3		50%	20			N		
	4			20			S		
	5			30			S		
	6			30			N		
	7			30			S		
	8			40			S		
	9			40			N		
	10			30			N		
	11			50			S		
	12		50%	50			N		
	13	SPEED CALIB	100%	50			S		
	14			50			N		
	15			40			S		
	16			40			N		
	17			30			S		
	18			30			N		
	19	DYNAMIC BRAKE		20			S		
	20			30			S		
	21			20			N		
	22			30			N		
	23			40			S		
	24			40			N		
	25			50			S		
	26			50			N		

SF 0002

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1/27/76	39 1 T	DYNAMIC	50%	20	AW0	SF0002	N		TAPE A-4, B-4
	2			30			N		
	3			20			S		
	4			30			S		
	5			40			N		
	6			40			S		
	7			50			N		
	8			50			S		
	9	TRACK BRAKE	100%	20			S		
	10			20			N		
	11			30			N		
	12			10			N		
	13			10			S		
	14			30			S		
	15			30			S		
	16			40			S		
	17			40			N		
	18			50			S		
	19			50			N		
	20			50			N		
	21	EMERGENCY		50			S		
	22			50			N		
	23			50			N		
	24			40			N		
	25			30			N		
	26			40			S		
	27			20			S		
	28			30			S		
	29			20			N		
	30			10			N		
	31			10			N		
	32			10			S		
	33 T			10			S		
	34	PANOGRAPH MOVIES		10			S		
	35			10			N		
	36			20			S		
	37			20			N		
	38			30			S		
	39			30			N		
	40			40			S		
	41			40			N		
	42			40			S		
	43			40			N		

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 15 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
1/28/76	40	2 CAR TRAN	100%		AWO	SF0002 SF0003			NO DATA SEVERE JERKING CAR TO CAR ON ACCEL.
1/29/76	41	ACCEL	100%		AWO	SF0002			GARRETT MODIFICATIONS TO ECU NO DATA EXPLORATORY ONLY.
1/30/76	42 1	ACCEL	100%	0-30-0	AWO	SF0002	S		GARRETT MODIFICATIONS FOR 3.0 ACCEL. RATE
	2	↓	↓	↓	↓	↓	S		
	3			↑			S		
	4	↓		0-30-0			S		
	5	MIN ACCEL		↓			W		
	6	DYNAMIC BRAKE		30			S		
	7			↓			S		
	8	↓		↑			S		
	9	ACCEL/DECEL		0-20-0			S		
	10	CONST SPEED		15			N		
	11	↓		30			N		
	12			10			N		
	13	↓		30			N		
	14	MIN ACCEL		0-30			S		
	15	ACCEL/DECEL		0-20			S		
	16	CONST. SPEED		25/10/5			S		
2/2/76	43 1	MAX ACCEL	100%	0-50	AWO	SF0002	N	515	
	2	↓	↓	↓	↓	SF0002 & 3	N-S	480	OPPOSITE DIRECTIONS
	3					SF0002 & 3	N	480	COUPLED
	4					↓	N	435	PROP DISABLE
	5						S		JERKING
	6						S		2 QSD's
	7						S	565	WEST GEN. ON
	8						N	560	SLIGHT JERKING
	9						S	580	TE. PAUSES
	10						S	580	AT HIGH SPEED
	11	↓	↓	↓	↓	↓	N	580	
2/3/76	44 1	ACCEL	100%	0-50	AWO	SF0002 SF0003	N	570	WEST GEN + DOT001
	2	↓	↓	0-50	↓	↓	S		PROP DISABLE
	3			0-44			S		
	4	↓		0-50			N		
	5	F.S. BRAKE		50-0			S		

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: PERFORMANCE + NOISE SHEET 16 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/4/76	45 1	ACCEL	100%	0-50	AWO	SF0002	N	* NOM DOT 001 SETTING 590	TAPE A-4, B-4 DOT 001 ONLY
	2	↓	↓	↓	↓	↓	S	↓	↓
	3						N		
	4						S		
	5						S		
	6						S		
	7						S		
	8						S		
	9						S		WIRING CHANGE IN ECU
	10						N		
	11						S		DOT 001 ONLY
	12	↓		↓			N		↓
	13	CONTROL RESPONSE					N		
	14	↓					N		
	15T						N		
	16T						N		
	17						N		
	18						N		
	19T						N		
	20T	↓					N		
	21	SPEED CALIB		20			S		
	22	↓		30			N		
	23			40			S		
	24	↓	↓	40	↓	↓	N	↓	↓
2/5/76	46	DUTY CYCLE PRACTICE							
2/9/76	47 1	NOISE TEST	100%	40	AWO	SF0002	N		
	2	↓	↓	35	↓	↓	S		
	3			40			N		
	4	↓	↓	40	↓	↓	S		
2/10/76	48 1	WAYSIDE NOISE	100%	40	AWO	SF0002	S		
	2	↓	↓	40	↓	↓	N		
	3			40			S		
	4			40			N		
	5			40			S		
	6			40			N		
	7			40			S		
	8	↓	↓	40	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: NOISE

SHEET 17 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
2/11/76	49 1	NOISE	100 %	40	AWO	SF0002	N		
	2	100', 50'		40			S		
	3			40			N		
	4			40			S		
	5			40			N		
	6			40			S		
	7			40			N		
	8			40			S		
	9			40			N		
	10	MOVIES		40			S		
	11			40			N		
	12			30			S		
	13			30			N		
	14			20			S		
	15			20			N		
	16			20			S		
	17			20			N		
	18	AIR COMP OFF		20			S		
	19			20			N		
	20			10			S		
	21			10			N		
	22			0			-		
	23	AIR COMP ON		40			S		
	24			40			N		
	25	AIR COMP OFF		40			S		
	26			40			N		
	27	200', 400'		40			S		
	28			40			N		
	29	STA 380 15', 25'		40			S		
	30			40			N		
	31			40			S		
	32			40			N		
	33			40			S		
	34			40			N		
	35	HIGH SPEED MOVIES		40			N		
	36			40			S		
	37			30			N		
	38			30			S		
	39			20			N		
	40			20			S		
	41			10			N		
	42			10			S		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: NOISE

SHEET 18 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
2/12/76	50	NOISE	100%		AW0	SF0002		580	INTERIOR NOISE TESTING ONLY DUE TO HIGH WINDS.
2/13/76	51 1	NOISE UNDERCAR EQUIPMENT	100%		AW0	SF0002		580	WEST SIDE OF TRACK
	2	↓							EAST SIDE OF TRACK
	3	INTERIOR		0,15,25,35			N		ALL SYSTEMS ON
	4	↓		15,25,35			S		
	5			50			N		
	6			50			S		
	7	ACCEL + F.S. BRAKE		0-50-0			N		
	8	ACCEL		0-20-0			S		
	9	WALK-THRU		40			S		
	10	↓		40			N		
	11			40			S		
	12			40			N		
	13	↓	↓	40	↓	↓	S	↓	
2/17/76	52 1	WAYSIDE NOISE	100%	40	AW3	SF0002	N	580	
	2	↓		40			S		
	3			40.			N		
	4			50			S		
	5			40			N		
	6			40			S		
	7			40			N		
	8			30			S		
	9			20			N		
	10			10			S		
	11			10			N		
	12	↓		20			S		
	13	INTERIOR NOISE		15,25,35			S		
	14	↓		15,25,35			N		
	15			50			S		
	16			50			N		
	17			15,25,35			S		SEAT LOCATIONS
	18			15,25,35			N		↓
	19			50			S		
	20	↓		50			N		
	21	ACCEL + F.S. BRAKE		0-50-0			S		
	22	↓		0-50-0			N		
	23	↓	50%	0-20-0	↓	↓	S	↓	

SF 0002

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RIDE QUALITY

SHEET 19 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
2/23/76	53 1T	RIDE QUALITY	100%	0	AW3	SF0002	-		TAPE A-7, B-7 CONCRETE TIE WELDED RAIL
	2			10			S		
	3			20			S		
	4			30			S		
	5			40			S		
	6			10			N		
	7			20			N		
	8			30			N		
	9			40			N		
	10			50			S		
	11			50			N		
	12	ACCEL		0-50			S		
	13			0-50			N		
	14	F.S. BRAKE		50-0			S		
	15			50-0			N		
2/25/76	54 1	RIDE QUALITY	100%	35	AW3	SF0002	N		TAPE A-7, B-7 CONCRETE TIE WELDED RAIL
	2			40			W		
	3			45			S		
	4			50			S		
	5	ACC. 5' IN "B" CAR		35			N		
	6			40			N		
	7			45			N		
	8			45			S		
	9			50			S		
	10	ACC. STA 290		35			N		
	11			40			N		
	12			45			S		
	13			50			S		
	14			45			N		
	15			50			N		
	16	TRUCK ACCEL		35			S		
	17			40			S		
	18			45			N		
	19			50			N		
	20	ACC 4' OF DOOR & IN 3" UNIT		35			S		
	21			40			S		
	22			45			N		
	23			50			N		
	24	ACC. 6' FWD OF ARTIC SECT "A" CAR		35			S		JOINTED & WELDED
	25			40			S		
	26			45			N		

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: RIDE QUALITY SHEET 20 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/25/76	54								TAPE A-7, B-7
	27	RIDE QUALITY	100%	50	AW3	SF0002	N		JOINTED & WELDED RAIL
	28			50			S		
	29			35			N		
	30	ACCEL. PACKS LAT. STR. 350		40			N		
	31			45			N		
	32			50			S		
	33T			10			S		
	34			20			S		
	35	ORIGIONAL INSTR.		30			S		
	36			10			N		
	37			20			N		
	38			30			N		
	39			40			S		
	40			40			N		
	41			50			S		
	42			50			N		
	43	ACCEL.		0-50			S		
	44	ACCEL.		0-50			N		
	45	F.S. BRAKE		30-0			S		
	46T	F.S. BRAKE		50-0			N		
2/26/76	55								TAPE A-7, B-7
	1T	RIDE QUALITY	100%	10	AW1	SF0002	N		WELDED RAIL CONCRETE TIES
	2			20			N		
	3			30			N		
	4			35			N		
	5			10			S		
	6			20			S		
	7			30			S		
	8			35			S		
	9			40			S		
	10			40			N		
	11			45			N		
	12			50			N		
	13			40			S		
	14			45			S		
	15			50			S		
	16	INTER. CAR BODY ACC.		35			N		
	17			40			N		
	18			45			N		
	19			50			N		
	20	ACC. FWD CAR 6° STR. 350		35			S		

SF 0002

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RIDE QUALITY

SHEET 21 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
2/26/76	55 21 T	ACC 6' FWD "B" CAR	100%	40	AW1	SF0002	S		WELDED RAIL CONCRETE TIES
	22	↓	↓	45	↓	↓	S		↓
	23	↓	↓	50	↓	↓	N		↓
	24	ACC STA 290 IN "B" CAR	↓	35	↓	↓	S		↓
	25	↓	↓	40	↓	↓	S		↓
	26	↓	↓	45	↓	↓	S		↓
	27	↓	↓	50	↓	↓	N		↓
	28	↓	↓	35	↓	↓	S		↓
	29	ACC MOVED TO STA 230	↓	40	↓	↓	S		↓
	30	↓	↓	45	↓	↓	S		↓
	31	↓	↓	50	↓	↓	N		↓
	32	ACC MOVED TO STA 342 A UNIT	↓	35	↓	↓	S		↓
	33	↓	↓	40	↓	↓	S		↓
	34	↓	↓	45	↓	↓	S		↓
	35	↓	↓	50	↓	↓	N		↓
	36	ACC MOVED STA 350 TORSIONAL	↓	35	↓	↓	S		↓
	37	↓	↓	40	↓	↓	S		↓
	38	↓	↓	45	↓	↓	S		↓
	39	↓	↓	50	↓	↓	N		↓
	40	TRUCK PICK-UPS	↓	35	↓	↓	S		↓
	41	↓	↓	40	↓	↓	S		↓
	42	↓	↓	45	↓	↓	S		↓
	43	↓	↓	50	↓	↓	N		↓
	44	BASIC CONFIG.	↓	10	↓	↓	S		↓
	45	↓	↓	20	↓	↓	S		↓
	46	↓	↓	30	↓	↓	S		↓
	47	JOINTED RAIL-WOOD TIES	↓	35	↓	↓	S		JOINTED RAIL WOOD TIES
	48	↓	↓	40	↓	↓	N		↓
	49	↓	↓	45	↓	↓	N		↓
	50	↓	↓	50	↓	↓	S		↓
	51	↓	↓	10	↓	↓	N		↓
	52	↓	↓	20	↓	↓	N		↓
	53	↓	↓	30	↓	↓	N		↓
	54	↓	↓	35	↓	↓	N		↓
	55	↓	↓	40	↓	↓	S		↓
	56	↓	↓	45	↓	↓	S		↓
	57	↓	↓	50	↓	↓	N		↓
	58	ACCEL.	↓	0-50	↓	↓	S		↓
	59	F.S. BRAKE	↓	50-0	↓	↓	N		↓
	60	ACCEL.	↓	0-50	↓	↓	N		WELDED RAIL CONCRETE TIES
	61	F.S. BRAKE	↓	50-0	↓	↓	N		↓
	62	BAGS DEF	↓	10	↓	↓	S		"A" TRUCK BAGS DEFL.
	63	" "	↓	20	↓	↓	S		"B" TRUCK BAGS DEFL.

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: RIDE QUALITY SHEET 22 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
2/26/70	55 64 T	"A" & "B" BAGS DEFLATED	100%	30	AW 1	SF 0002	S		TAPE A-7, B-7
	65			40			S		
	66			10			N		JOINTED RAIL WOOD TIE
	67			20			N		
	68			30			N		
	69			40			N		
	70			50			N		
	71	ALL BAGS		10			S		
	72			20			S		
	73			30			S		
	74			40			N		
	75			50			N		
	76			40			S		
	77			50			S		
	78	"A" BAGS INFLATED		10			N		
	79			20			N		
	80			30			N		
	81			40			N		
	82			10			S		
	83			20			S		
	84			30			S		
	85			40			S		
	86			50			N		
	87			50			S		
	88	CENTER DEFLATED		10			N		"A" & "B" BAGS INFLATED
	89			20			N		
	90			30			N		
	91			10			S		
	92			20			S		
	93			30			S		
	94			40			S		
	95			40			N		
	96			50			N		
	97			50			S		
	98	"B" BAGS DEFLATED		10			N		"A" & CENTER TRUCK INFLATED.
	99			20			N		
	100			30			N		
	101			40			N		
	102			10			S		
	103			20			S		
	104			30			S		
	105			40			S		
	106			50			N		
	107			50			S		

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: RIDE QUALITY SHEET 23 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
2/27/76	56 1T	RIDE QUALITY	100%	10	AW2	SF0002	N		TAPE A-7, B-7 WELDED RAIL/ CONCRETE TIE
	2			20			N		
	3			30			N		
	4			35			N		
	5			40			N		
	6			10			S		
	7			20			S		
	8			30			S		
	9			35			S		
	10			40			S		
	11			50			N		
	12			50			S		
	13	ACCEL.		0-50			N		
	14	F.S. BRAKE		50-0			N		
	15	ACCEL		0-50			S		
	16	F.S. BRAKE		50-0			S		
	17			10			S		JOINTED RAIL/ WOOD TIES
	18			20			S		
	19			30			S		
	20			35			S		
	21			10			N		
	22			20			N		
	23			30			N		
	24			35			N		
	25			40			S		
	26			45			S		
	27			50			S		
	28			40			N		
	29			45			N		
	30	BLANK		50			I		
	31	ACCEL		0-50			S		
	32	F.S. BRAKE		50-0			S		
	33	ACCEL		0-50			N		
	34	F.S. BRAKE		50-0			N		
	35	STA 350		35			N		CONCRETE TIE/ WELDED RAIL
	36			40			N		
	37			45			N		
	38			50			S		
	39	STA 290		35			N		
	40			40			N		
	41			45			N		
	42			50			N		
	43	STA 230		35			S		

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: RIDE QUALITY PERFORMANCE + NOISE SHEET 24 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
2/27/76	56 44T	STA 230 'B' UNIT	100%	40	AW2	SF0002	S		TAPE A-7, B-7
	45	↓	↓	45	↓	↓	S		
	46	↓	↓	50	↓	↓	S		
	47	STA 242 'A' UNIT	↓	35	↓	↓	N		
	48	↓	↓	40	↓	↓	N		
	49	↓	↓	45	↓	↓	N		
	50	↓	↓	50	↓	↓	N		
	51	↓	↓	35	↓	↓	S		
	52	STA 350 FOR TORSIONAL	↓	40	↓	↓	S		
	53	↓	↓	45	↓	↓	S		
	54	↓	↓	50	↓	↓	S		
	55	↓	↓	35	↓	↓	N		
	56	↓	↓	40	↓	↓	N		
	57	↓	↓	45	↓	↓	N		
	58	↓	↓	50	↓	↓	N		
3/1/76	57 1	PERFORMANCE ACCEL	100%	0-50	AW0	SF0002	N		
	2	↓	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	N		
3/1/76	58 1	ACCEL	100%	0-50	AW0	SF0002 MB0002	S		
	2	↓	↓	↓	↓	↓	N		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	N		
	5	F.S. BRAKE	↓	50-0	↓	↓	S		
	6	↓	↓	50-0	↓	↓	N		
3/2/76	59	WAYSIDE NOISE							
	1	ACCEL	100%	0-50	AW0	SF0002 MB0002	N		
	2	↓	↓	↓	↓	↓	S		
	3	↓	↓	↓	↓	↓	S		
	4	↓	↓	↓	↓	↓	N		
	5	↓	↓	↓	↓	↓	S		
	6	↓	↓	↓	↓	↓	N		
	7	F.S. BRAKE	↓	↓	↓	↓	S		
	8	FRICTION	↓	↓	↓	↓	N		
	9	F.S. BRAKE	50%	↓	↓	↓	S		
	10	↓	100%	↓	↓	↓	N		
	11	↓	↓	↓	↓	↓	S		
	12	↓	↓	↓	↓	↓	S		
	13	↓	↓	↓	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE + NOISE SHEET 25 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/2/76	59 14	F.S. BRAKE	100%	30	AWO	SF0002 MB0002	N		
	15	↓	↓	50	↓	↓	S		
	16	↓	↓	50	↓	↓	N		
	17	ACCEL	50%	0-45	↓	↓	S		
	18	↓	↓	0-45	↓	↓	N		
3/3/76	60	WAYSIDE NOISE			AWO	SF0002 MB0002			
	1	↓	100%	50	↓	↓	N		50' WAYSIDE - WEST SIDE OF TRACK
	2	↓	↓	40	↓	↓	S		↓
	3	↓	↓	40	↓	↓	N		↓
	4	↓	↓	30	↓	↓	S		↓
	5	↓	↓	20	↓	↓	N		↓
	6	↓	↓	10	↓	↓	S		↓
	7	↓	↓	10	↓	↓	N		50' WAYSIDE - EAST SIDE OF TRACK
	8	↓	↓	50	↓	↓	S		↓
	9	↓	↓	40	↓	↓	N		↓
	10	↓	↓	30	↓	↓	S		↓
	11	↓	↓	20	↓	↓	N		↓
	12	↓	↓	10	↓	↓	S		↓
	13	↓	↓	30	↓	↓	N		↓
	14	↓	↓	40	↓	↓	S		↓
	15	↓	↓	50	↓	↓	N		↓
	16	↓	↓	20	↓	↓	S		↓
3/8/76	61	SLIP/SLIDE	100%						
	1	F.S. BRAKE	↓	30-10	AWO	SF0002	S		NO SLIP/WATER ONLY
	2	↓	↓	30-0	↓	↓	S		" " "
	3	↓	↓	30-0	↓	↓	S		DRY TRACK
	4	↓	↓	30-0	↓	↓	S		NO SLIP/WATER ONLY
	5	↓	↓	30-10	↓	↓	S		NO SLIP/1PT/55 gal
	6	↓	↓	30-10	↓	↓	S		" " "
	7	↓	↓	30-10	↓	↓	S		SLIP/2PT/45 GAL
	8	↓	↓	40-0	↓	↓	S		SLIP
	9	ACCEL	↓	0-30	↓	↓	S		SLIP
	10	F.S. BRAKE	↓	40-0	↓	↓	S		SLIP
	11	↓	↓	40-0	↓	↓	S		SLIP
	12	↓	↓	50-0	↓	↓	S		SLIP
	13	↓	↓	40-0	↓	↓	S		SLIP
	14	↓	↓	20-0	↓	↓	S		SLIP
	15	ACCEL BASE	↓	0-30	↓	↓	S		NO SLIP
	16	↓	↓	0-30	↓	↓	N		NO SLIP

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 26 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
3/9/76	62	PANTOGRAPH TEST							
3/10/76	63	SLIP/SLIDE							TAPE A-5, B-5
	1	SPEED CALIB	100%	30	AWO	SF0002	N		
	2			30			S		
	3			50			N		
	4			50			S		
	5	FRICTION ONLY		30			S		NO SLIP
	6			30			S		SLIDES
	7			30			S		
	8			30			S		
	9			40			S		
	10			40			S		
	11			50			S		
	12			50			S		
	13			50			S		
	14			50			S		1 RAIL WET
	15			50			S		
	16			50			S		SLIDES
	17			50			S		REFILL WATER ONLY
	18			50			S		SLIDES
	19			40			S		
	20			40			S		
	21			20			S		
	22	NO GOOD					S		
	23			20			S		
3/11/76	64	SLIP/SLIDE							TAPE A-5, B-5
	1	FRICTION ONLY	100%	20	AWO	SF0002	S		NO SLIP
	2			20			S		" "
	3			20			S		" "
	4			40			S		SLIDES
	5			20			S		
	6			20			S		
	7			20			S		
	8			20			S		
	9			20			S		2 PTS/50 GAL
	10			20			S		SLIDES
	11			20			S		
	12			20			S		
	13			20			S		
	14	F.S. BRAKE		50			S		
	15			50			S		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 27 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
3/11/76	64	SLIP/SLIDE							TAPE A-5, B-5
	16	F.S. BRAKE	100%	30	AWO	SF0002	S		
	17	↓	↓	30	↓	↓	S		
	18			30			S		
	19			30			S		
	20			30			S		
	21			20			S		
	22			20			S		
	23			20			S		
	24			20			S		
	25			20			S		
	26			15			S		
	27			15			S		
	28		↓	15			S		
	29	↓	25%	15			S		
	30	ACCEL		0-30			S		NO SLIPS
	31			0-30			S		
	32			0-30			S		
	33	↓		0-30			S		↓
	34	F.S. BRAKE		50			S		SLIDES
	35			50			S		
	36			50			S		
	37			40			S		
	38	↓	↓	40	↓	↓	S		↓
3/15/75	65	SLIP/SLIDE							TAPE A-5, B-5
	1	F.S. BRAKE	100%	40	AWO	SF0002	S		ALL TRUCKS NOT SLIDING 2 NOZZLES 'A' TRUCK
	2			40			S		
	3			40			S		
	4			40			S		
	5			40			S		
	6	↓		40			S		
	7	FRICTION ONLY		40			S		
	8	F.S. BRAKE		40			N		
	9			40			S		
	10			40			N		
	11			40			S		
	12			40			S		
	13			40			S		
	14	↓		40			S		
	15	ACCEL		0-30			S		5 PTS. -DC/55 GAL NO SPIN
	16			0-30			S		
	17	↓	↓	0-30	↓	↓	S		↓

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 28 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
3/15/75	65 18	SLIP/SLIDE ACCEL	100%	0-30	AWO	SF0002	S		NO SPIN
	19	↓	↓	0-30	↓	↓	S		STRAIGHT LOC
	20			0-30			S		SPIN TO BASE SPEED
	21			0-45			S		
3/16/76	66	TRAIN LINE PERFORMANCE DYNAMIC ONLY							TAPE A-5, B-5
	1		100%	30	AWO	SF0002 SF0003	S		
	2			40			S		
	3			50			S		
	4		↓	50			N		
	5	↓	50%	50			S		
	6	FRICTION ONLY	100%	30			S		
	7			30			N		
	8			40			S		
	9			50			S		
	10		↓	47			N		
	11	↓	50%	50			S		
	12	EMERGENCY	100%	50			N		
	13			50			S		
	14			50			N		
	15			40			S		
	16			30			S		
	17	↓	↓	30	↓	↓	N		
3/17/76	67 1	FRICTION + TRACK	100%	50	AWO	SF0002	N		
	2			40			N		
	3			48			S		
	4			50			S		
	5			40			S		
	6			30			S		
	7	↓		20			S		
	8	TRACK ONLY		30			S		
	9	↓	↓	30	↓	↓	S		
3/18/76	68 1	F.S. BRAKE	100%	50	AW3	SF0002 SF0003	S		TAPE A-6, B-6
	2		100%	49			N		
	3		75%	50			S		
	4		50%	50			S		
	5		25%	50			S		
	6		100%	40			S		
	7	↓		30			S		
	8	DYNAMIC		50			S		
	9		↓	50	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: PERFORMANCE SHEET 29 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/18/76	68								TAPE A-6, B-6
	10	DYNAMIC	75%	50	AW3	SF0002 SF0003	S		
	11		50%	50			S		
	12		25%	50			S		
	13	EMERGENCY	100%	50			S		
	14			50			S		
	15			30			X		
	16			30			S		
	17	TRACK BRK		30			S		
	18			30			X		
	19			30			X		
	20	ACCEL		0-50			S		
	21			0-50			X		
	22			0-50			X		
	23			0-50			S		
	24	FRICTION	100%	50			X		
	25		100%	50			S		
	26		75%	50			S		
	27		50%	50			S		
	28		25%	50			S		
	29		100%	50			X		
	30		100%	50			S		
	31		100%	50			S		
	32		75%	50			S		
	33		50%	50			S		
	34		50%	50			S		
	35		25%	50			S		
3/19/76	69								TAPE A-6, B-6
	1	F.S. BRAKE	100%	20	AW3	SF0002	S		
	2		75%	20			S		
	3		50%	20			S		
	4		25%	20			S		
	5		100%	30			S		
	6		75%	30			S		
	7		75%	30			S		
	8		50%	30			S		
	9		25%	30			S		
	10		100%	40			S		
	11		75%	40			S		
	12		50%	40			S		
	13		25%	40			S		
	14		100%	50			S		
	15		75%	50			S		

SLRV ENGINEERING TEST RUN LOG

SF 0002

TYPE OF TEST: PERFORMANCE

SHEET 30 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/19/76	69 16	F.S. BRAKE	75%	50	AW3	SF0002	S		TAPE A-6, B-6
	17	↓	50%	50	↓	↓	S		
	18	↓	25%	50	↓	↓	S		
	19	FRICTION ONLY	100%	20	↓	↓	S		
	20	↓	75%	20	↓	↓	S		
	21	↓	50%	20	↓	↓	S		
	22	↓	25%	20	↓	↓	S		
	23	↓	100%	30	↓	↓	S		
	24	↓	75%	30	↓	↓	S		
	25	↓	50%	30	↓	↓	S		
	26	↓	25%	30	↓	↓	S		
	27	↓	100%	40	↓	↓	S		
	28	↓	75%	40	↓	↓	S		
	29	↓	50%	40	↓	↓	S		
	30	↓	25%	40	↓	↓	S		
	31	↓	100%	50	↓	↓	S		
	32	↓	75%	50	↓	↓	S		
	33	↓	50%	50	↓	↓	S		
	34	↓	25%	50	↓	↓	S		
	35	DYNAMIC	100%	50	↓	↓	S		
	36	↓	75%	50	↓	↓	S		
	37	↓	50%	50	↓	↓	S		
	38	↓	25%	50	↓	↓	S		
	39	↓	100%	40	↓	↓	S		
	40	↓	75%	40	↓	↓	S		
	41	↓	75%	40	↓	↓	S		
	42	↓	50%	40	↓	↓	S		
	43	↓	25%	40	↓	↓	S		
	44	↓	100%	30	↓	↓	S		
	45	↓	75%	30	↓	↓	S		
	46	↓	25%	30	↓	↓	S		
3/20/76	70 1 THRU 43	EMERGENCY BRAKE INVESTIGATION TR #017			AW3 ↓	SF0002 ↓	CAR IN TMB		
3/22/76	71 1	No Good							TAPE A-6, B-6
	2	F.S. BRAKE	100%	50	AW3	SF0002	N		31 LEVEL CONNECTED
	3	↓	↓	50	↓	↓	S		
	4	↓	↓	20	↓	↓	S		
	5	↓	↓	50	↓	↓	S		

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: PERFORMANCE SHEET 31 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
3/22/76	71								TAPE A-6, B-6
	6	F.S. BRAKE	100%	30	AW3	SF0002	S		
	7			50			S		
	8			40			S		
	9			20			S		
	10			50			S		REDUCED VOLTAGE TO 500V
	11			20			S		
	12			30			S		
	13			40			S		
	14			20			S		
	15			50			N		
	16			50			S		MAX VOLTAGE 710V
	17			50			S		
	18	BI-LEVEL CONNECTED		50			S		
	19			30			S		
	20			20			S		
	21			40			S		
	22	DISCONNECTED		50			S		
	23			30			S		
	24			20			S		
	25			40			S		
	26			50			N		
	27	CONNECTED		50			N		
	28	F.S. BRAKE		50			N		
	29	ACCEL		0-50			N		
	30			0-50			S		
3/23/76	72								TAPE A-8, B-8
	1	DYNAMIC BRAKE	100%	50	AW3	SF0002	S		
	2			30			S		
	3			30			S		
	4			40			S		
	5			30			S		
	6			20			S		
	7			20			S		
	8		75%	50			S		
	9			20			S		
	10			40			S		
	11			30			S		
	12		50%	50			S		
	13			20			S		
	14			40			S		
	15			30			S		

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 32 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
3/23/76	72								TAPE A-8, B-8
	16	DYNAMIC ONLY	25%	50	AW3	SF0002	S		
	17	↓	↓	20	↓	↓	S		
	18			40			S		
	19	N.G.		30			S		
	20	DYNAMIC ONLY		30			S		
	21	↓	↓	20			S		
	22		100%	50			N		
	23		↓	20			N		
	24			40			N		
	25	↓		30			N		
3/23/76	73								
	1	AUTO SPEED CONT		50, 35, 10			N		
	2	↓		50			N		
	3			50			N		
	4			35			N		
	5			35			N		
	6			15			N		
	7			20			N		
	8	N.G.							
	9	N.G.		20			N		
	10			20			N		
	11	N.G.		35			N		
	12			35			N		
	13			50			N		
	14			50			N		
	15			50			N		
	16	↓	↓	35	↓	↓	N		
3/24/76	74								TAPE A-8, B-8
	1	F.S. BRAKE	100%	50	AW3	SF0002	N		
	2	↓	100%	30	↓	↓	N		
	3	ACCEL	50%	0-50			N		
	4	↓	50%	0-50			S		
	5	SPRING BRK TOW TEST		—			N		
	6			—			N		
	7	↓		—			TMB		MOVED BY LOCOMOTIVE
	8			—	↓	↓	TMB		
3/25/76	75								
	1	SPRING BRAKE TOW TEST			AW3	SF0002	TMB		NEW CENTER TRUCK ACTUATORS
	2	↓			↓	↓	↓		
	3								
	4								
	5								
	6								
	7	↓			↓	↓	↓		

SLRV ENGINEERING TEST RUN LOG

SF0002

TYPE OF TEST: PERFORMANCE

SHEET 33 OF 36

DATE	TEST NO. REC NO.		TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
3/25/76	76	1	EMERGENCY	100%		AW3	SF0002			TAPE A-8, B-8
		2	CONTROL RESPONSE	↓	↓	↓	↓			OPTION 1
		3	↓							
		4								
		5								OPTION 2
		6								
3/26/76	77	1	EMERGENCY	100%	0	AW3	SF0002 SF0003	S		TAPE A-8, B-8
		2	↓	↓	50	↓	↓	S		
		3			30			S		
		4			20			S		
		5			10			S		
		6			40			S		
		7			30			S		
		8			0			S		
		9	CONTROL RESPONSE							OPTION 1
		10	↓							OPTION 1
		11								OPTION 2
		12								OPTION 2
		13	POWER ISOLATION GAP							ACCEL
		14	↓							
		15			30					DECEL
		16								
		17			26					STEADY
		18		↓		↓	↓			DECEL
3/29/76	78	1	DUTY CYCLE	100%		AW2	SF0002			TAPE A-8, B-8 ABORTED DEAD PROPULSION
3/30/76	79	1	EMERGENCY	100%		AW3	SF0002	S		TAPE A-9, B-9
		2	BLENDED BRAKE			↓	↓			
3/31/76	80	1	ACCEL	100%	0-50	AW3	SF0002	N		TAPE A-9, B-9
		2	F.S. BRAKE		30			S		
		3	↓		40			N		
		4			35			S		
		5			30					
		6	CONTINOUS SPEED		50					
		7	↓	↓	54	↓	↓			

SLRV ENGINEERING TEST RUN LOG SF0002

TYPE OF TEST: PERFORMANCE SHEET 34 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/1/76	81								TAPE A-9, B-9
	1	F.S. BRAKE	100%	50	AW3	SF0002 SF0003	S		MODIFIED EMERGENCY BRK
	2			20			S		
	3			30			S		
	4			10			S		
	5			50			N		
	6			40			S		
	7	EMERGENCY		50					
	8			20					
	9			10					
	10			30					
	11			50					
	12			40					
	13	NO GOOD							
	14	EMERGENCY		45					TEST REQUEST* 20
	15			45					
4/2/76	82								TAPE A-9, B-9
	1	ACCEL	100%	0-50	AW2	SF0002 SF0003	S		NO GOOD
	2			0-50			N		NO GOOD
	3	BLENDED BRAKE		50			S		
	4			20			S		
	5			20			S		
	6			50			S		
	7			40			S		
	8			30			S		
	9			30			S		
	10			50			S		
	11			20			S		
	12			50			N		NO GOOD
	13			-			N		NO RECORD
	14			50			S		
	15			50			S		
	16		50%	20			S		
	17			40			S		
	18			30			S		
	19	FRICTION	100%	50			S		NO GOOD
	20		50%	50			S		NO GOOD
	21		100%	50			N		NO GOOD
	22			-			N		NO GOOD
	23			50			N		
	24			50			S		
	25		50%	50			S		
	26	EMERGENCY	100%	50			N		
	27			50			N		

SLRV ENGINEERING TEST RUN LOG SF 0002

TYPE OF TEST: PERFORMANCE SHEET 35 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT	LINE VOLTS	NOTES:
4/2/76	82 28	EMERGENCY	100%	50	AW2	SF0002 SF0003	S		
	29	DYNAMIC BRAKE	100%	50			N		
	30		100%	50			S		
	31		50%	50			S		
	32	DUTY CYCLE	100%						ABORTED PANTO BOUNCE
4/3/76	83 1	COUPLING TEST			AW2	SF0002 SF0003			PER TEST REQUEST #19
4/5/76	84 1	DUTY	100%		AW2	SF0002			TAPE A-10, B-10
	2	CYCLE							
	3	THERMAL OVERLOAD							
4/5/76	85	BRAKE TEST			AW2	SF0002			ADJUST & CHECK BRAKES O/F CENTER TRUCK
4/6/76	86 1	ACCEL	100%		AW2	SF0002 SF0003	N		TAPE A-11, B-11
	2						S		NO GOOD
	3						—		NO GOOD
	4	F.S. BRAKE					N		GENERATOR PRELOAD
	5			50			S		
	6			50			N		
	7		50%	50			S		
	8	FRICTION	100%	50			N		
	9			50			N		
	10			50			S		
	11		50%	50			S		
	12	F.S. BRAKE	100%	40			S		
	13			40			S		
	14			30			S		
	15			20			S		
	16			40			S		
	17	DRIFT TEST		50			S		4000'
	18			50			N		
	19			50			N		
	20			40			S		
	21			40			N		
	22			25			S		2500'
	23			25			N		2700'

SLRV ENGINEERING TEST RUN LOG SF 0002 & SF0003

TYPE OF TEST: PERFORMANCE SHEET 36 OF 36

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
	87	CAB SIGNAL	100% ↓						
5/14/76	88	TRUCK SHOCK TEST			AW2 ↓	SF0002 ↓			
5/24/76	89 1	DRIFT-TEST ↓	100% ↓	50	AW2 ↓	SF0002 ↓	N		
	2			46			N		
	3			41			N		
	4			30			N		
	5			16			N		
	6			50			N		
	7			41			S		

B. TOTAL TEST LOG ON CAR SF0003

SLRV ENGINEERING TEST RUN LOG SF0003

TYPE OF TEST: PERFORMANCE SHEET 1 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR—ECT.	LINE VOLTS	NOTES:
1/4/75	5 1	ACCEL	100%	0-50	AWO	SF0003	S		
	2	↓	↓	0-50	↓	↓	N		
	3			0-50			S		
	4			0-50			N		
	5	SPEED CALIB		50			S		
	6	↓		50			N		
	7			40			S		
	8			40			N		
	9			30			S		
	10			30			N		
	1	↓		30			S		
	12	F.S. BRAKE		30			N		
	13	↓		30			N		
	14			40			S		
	15	↓		40			S		
	16	FRICTION ONLY		40			N		
	17	F.S. BRAKE		40			N		
	18	F.S. BRAKE		40			S		
	19	FRICTION ONLY		40			S		
	20	↓		40			N		
	21			40			N		
	22	↓		40			S		
	23	DYN. ONLY		40			N		
	24	↓		40			S		
	25	EMERGENCY		40			N		
	26	↓		30			N		
	27			40			S		
	28	↓		30			S		
	29	ACCEL		0-50			N		
	30	↓		0-50			S		
	31	↓	↓	0-50	↓	↓	N		
11/7/75	6 1	ACCEL	100%	0-50	AWO	SF0003	N		
	2	↓	↓	↓	↓	↓	S		
	3						N		
	4						S		
	5						N		
	6	↓		0-50			S		
	7	F.S. BRAKE		↓			N		
	8	—	—	—	—	—	—		
	9	↓	↓	↓	↓	↓	S		
	10	↓	↓	↓	↓	↓	S		

SF0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
11/7/75	6 11	FRICTION	100%	38.5	AWO	SF0003	N		
	12	↓	↓	31	↓	↓	N		
	13	F.S. BRAKE		40			S		
	14	FRICTION		31			S		
	15	↓		40			S		
	16			30.5			S		
	17	EMERGENCY		40			N		
	18	↓		31			N		
	19			30			N		
	20			47			S		
	21			30			S		
	22	↓		30			S		
	23	DYNAMIC		48.5			N		
	24	↓		48			S		
	25	ACCEL		-			-		ACCELEROMETER
	26	↓		-			-		MOVED.
	27			-			-		
	28			0-50			S		
	29	↓	↓	0-50	↓	↓	N		
11/13/75	7 1	F.S. BRAKE	100%	35	AWO	SF0003	N		
	2	↓	↓	35	↓	↓	N		
	3			35			N		
	4			35			N		
	5		↓	35			S		
	6	↓	50%	35			S		
	7	FRICTION		35			S		
	8	↓		35			S		
	9	TRACK BRK.		35			S		
	10	↓		35			S		
	11	F.S. BRAKE		35			N		
	12	FRICTION		35			N		
	13	↓		35			N		
	14			35			N		
	15	CONST. SPEED		50			S		
	16	↓		50			N		
	17	EMERGENCY		35			S		
	18	↓		35			S		
	19			35			S		
	20			35			S		
	21	TRACK BRK.		35			S		
	22	EMERGENCY	↓	35	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG

SF0003

TYPE OF TEST: PERFORMANCE

SHEET 3 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
11/13/75	7 23	EMERGENCY	100 %	50	AWO	SF0003	N		
	24	↓	↓	10	↓	↓	N		
	25	↓	↓	10	↓	↓	N		
	26	TRACK	↓	35	↓	↓	N		
	27	F.S. BLEND	TRACK	35/15	↓	↓	N		
	28	EMERGENCY	↓	50	↓	↓	N		CENTER AIR BAGS DOWN
	29	↓	↓	35	↓	↓	N		
11/21/75	8 1	ACCEL	100%	0-50	AWO	SF0003	N		
	2	↓	↓	0-50	↓	↓	S		
	3	EMERGENCY	↓	35	↓	↓	N		
	4	↓	↓	35	↓	↓	N		
	5	↓	↓	35	↓	↓	S		
	6	↓	↓	35	↓	↓	S		
	7	ACCEL	↓	0-50	↓	↓	N		
	8	FRICTION	↓	35	↓	↓	N		
	9	↓	↓	35	↓	↓	N		
	10	↓	↓	35	↓	↓	S		
	11	↓	↓	35	↓	↓	S		
	12	ACCEL	↓	0-50	↓	↓	N		
	13	↓	↓	0-50	↓	↓	S		
	14	EMERGENCY	↓	35	↓	↓	N		
	15	↓	↓	35	↓	↓	N		
	16	↓	↓	35	↓	↓	N		
	17	↓	↓	36.5	↓	↓	S		
	18	↓	↓	35.5	↓	↓	S		
	19	↓	↓	35	↓	↓	S		
	20	F.S + TRACK	↓	35/20	↓	↓	S		
	21	↓	↓	35/20	↓	↓	N		
12/2/75	9 1	SPEED CALIB	100%	40	AWO	SF0003	N		
	2	↓	↓	40	↓	↓	S		
	3	FRICTION	↓	30	↓	↓	N		
	4	↓	↓	30	↓	↓	N		
	5	↓	↓	30	↓	↓	N		
	6	EMERGENCY	↓	30	↓	↓	N		
	7	↓	↓	30	↓	↓	S		
	8	↓	↓	20	↓	↓	S		
	9	ACCEL	↓	0-50	↓	↓	S		
	10	↓	↓	0-50	↓	↓	N		
	11	↓	↓	0-50	↓	↓	S		
	12	↓	↓	0-50	↓	↓	N		

SLRV ENGINEERING TEST RUN LOG SF0003

TYPE OF TEST: PERFORMANCE, NOISE & RFI SHEET 4 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
12/2/75	9 13	EMERGENCY	100%	30	AWO	SF0003	N		
	14	↓	↓	30	↓	↓	S		
	15	ACCEL	↓	0-50	↓	↓	S		
	16	↓	↓	0-50	↓	↓	N		
12/4/75	10 1	SPEED CALIB	100%	30	AWO	SF0003	N		
	2	↓	↓	40	↓	↓	N		
	3	↓	↓	49	↓	↓	S		
	4	↓	↓	20	↓	↓	N		
	5	ACCEL	↓	0-50	↓	↓	S		
	6	↓	↓	0-50	↓	↓	N		
	7	↓	↓	0-50	↓	↓	S		
	8	↓	↓	0-50	↓	↓	N		
	9	F.S. BRAKE	↓	30	↓	↓	S		
	10	↓	↓	30	↓	↓	N		
	11	↓	↓	50	↓	↓	S		
	12	↓	↓	50	↓	↓	N		
	13	DYNAMIC BRK	↓	30	↓	↓	N		
	14	↓	↓	30	↓	↓	S		
	15	↓	↓	50	↓	↓	N		
	16	↓	↓	50	↓	↓	S		
	17	FRICTION BRK	↓	30	↓	↓	N		
1/8/76	11	CAB SIGNAL	100%		AW2	SF0003			
2/13/76	12	INTERIOR NOISE SURVEY	100%		AWO	SF0003			
4/12/76	13	RADIO FREQUENCY INTERFER.	100%		AW2	SF0003			
4/13/76	14	RADIO FREQUENCY INTERFER.	100%		AW2	SF0003			
4/21/76	15	RADIO FREQUENCY INTERFER	100%		AW2	SF0003			
4/22/76	16	RADIO FREQUENCY INTERFER	100%		AW2	SF0003			

SF0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE + RFI

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
4/27/76	17	CAB SIGNAL	100%		AW2	SF0003			
4/28/76	18	CAB SIGNAL	100%		AW2	MB0002 SF0002 SF0003			
4/29/76	19	CAB SIGNAL	100%		AW2	MB0002 SF0002 SF0003			
4/30/76	20	CAB SIGNAL	100%		AW2	MB0002 SF0002 SF0003			
5/3/76	21	CAB SIGNAL	100%		AW2	MB0002 SF0002 SF0003			
5/4/76	22	CAB SIGNAL	100%		AW2	MB0002 SF0002 SF0003			
5/6/76	23	RADIO FREQUENCY INTERFER	100%		AW2	SF0003			
6/4/76	24 1	PERFORMANCE ACCEL	100%	50	AW2	SF0003	S		TAPE A-16, B-16
	2	ACCEL		50			N		
	3	F.S. BRAKE		35			N		
	4	FRICTION		35			S		
	5T	ACCEL/F.S. BRK		35			S		
	6T	" "		50			N		
6/8/76	25 1	DRIFT TEST	100%	50	AW2	SF0003	S		TAPE A-16, B-16
	2			50			N		
	3			40			S		
	4			40			N		
	5			27			S		
	6			27			N		
	7			5			S		
	8			5			N		
	9	F.S. BRAKE		35			S		
	10	BCP CHECK		35			S		

SF 0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION SHEET 6 OF 9

DATE	TEST NO. / REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIRECT.	LINE VOLTS	NOTES:
6/9/76	26 / 1	DUTY CYCLE	100%		AW2	SF0003			BRAKE PRESS. N.G.
	2	SPEED		50			N		
	3	CALIB		50			S		
	4			40			N		
	5			40			S		
	6			25			N		
	7			25			S		
6/10/76	27 / 1	FRICTION	100%	35	AW2	SF0003	N		
	2	BRAKE		35			N		
	3			35			S		
	4			35			S		
6/11/76	28 / 1	FRICTION	100%	35	AW2	SF0003	N		
	2	BRAKE		35			N		
6/14/76	29 / 1	DRIFT	100%	50	AW2	SF0003	N		TAPE A-14, B-14
	2	TEST		50		MB0002	S		NB WIND SPRANG
	3			42			N		UP 1/2 WAY THRU
	4			42			S		TEST.
	5			30			N		
	6			30			S		
	7			14			N		
	8	POWER CONSUMPTION DUTY CYCLE		14			S		
6/15/76	30 / 1	BLENDED BR	100%	26	AW2	SF0003	N		TAPE A-14, B-14
				26		MB0002	S		
				50			N		
				50			S		
				50			N		
				50			S		
				26			N		
				26			S		
				26			N		
	2	DRIFT	—	50			S		
	3	TEST		50			N		
	4			50			S		
	5			42			N		
	6			30			S		
	7			32			N		
	8			16			S		
	9			15			N		
	10	ACCELERATION	100 %	0 – 50			S		TAPE A-15, B-15
	11	PERF.	100 %				S		
	12		100 %				N		
	13		75 %				S		
	14		50 %				N		
	15		25 %				S		

SF 0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/16/76	31	EMERGENCY							TAPE A-15, B-15
	1	BRAKE	100%	50	AW2	SF0003	S		
	2	↓		50		MB0002	N		
	3			40			S		
	4			20			S		
	5	↓		30			S		TR #036
	6	ACCEL		0-50			S		MEASUREMENT OF
		DECEL		50-0			S		ARMATURE CURRENT IN
		ACCEL		0-30			S		2-CAR TRAIN OP'N.
		DECEL		30-0			S		
	7	ACCEL		0-50			N		
		DECEL		50-0			N		
		ACCEL		0-30			N		
		DECEL		30-0			N		
	8	ACCEL		0-50			S		} NO GOOD
		DECEL		50-0			S		
		ACCEL		0-30			S		
		DECEL		30-0			S		
	9	ACCEL		0-50			S		
		DECEL		50-0			S		
		ACCEL		0-30			S		
		DECEL		30-0			S		
6/17/76	32								TAPE A-15, B-15
	1	ACCEL	100%	0-50	AW3	SF0003	N		
	2	↓		↓	↓	MB0002	S		
	3						N		
	4	↓	50%	↓			N		
	5	BLENDED	75%	40			N		
	6	DECEL		40			↓		
	7	↓		30					
	8			20					
	9		50%	40					
	10			30					
	11			20					
	12	↓	25%	40	↓		↓		
	13	ARM CURRENT	-	-	AW0		N		
	14	DECEL (FR)	100%	50	↓		S		
	15	TOW MODE					↓		
	16	"							
6/18/76	33	1 FRICTION	100%	50	AW0	SF0003	N		TAPE A-15 B-15
	2	BRAKE		40		MB0002			
	3			30					
	4			20					
	5		50%	50					
	6		100%	20					
	7			20					
	8			50			S		
	9			30			↓		
	10	ARM. CURRENT	-	-	↓		N		

SF 0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION SHEET 8 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
6/18/76	33								TAPE A-15, B-15
	11	SPEED	100	50	AW0	SF003	N/S		
	12	↓		52		MB002	N		
	13			51			S		
6/21/76	34				AW2	SF0003			TAPE A-15, B-15
	1	CONTROL					N		
	2	RESPONSE							
	3								
	4								
	5								
	6								
	7	JERK							
	8	LIMIT							
	9								
	10								
	11	EMERGENCY	E	30			S		
	12	BRAKE		40			S		
	13			50			N		
	14			20					
	15			30					
	16			10					
	17			50			S		
	18			20					
	19			10					
	20	↓	↓	40			N		
6/22/76	35				AW2	SF0003			TAPE A-17, B-17 LOW ACCEL RATE
		DUTY CYCLE							
6/23/76	36								TAPE A-17, B-17
	1	ACCEL	100%	30	AW2	SF0003			
	2	↑		38					
	3	DYN. BRAKE		30					
	4	ACCEL		40			N		
	5	↓		↓			S		
	6						S		
	7								
	8			↓					
	9	SLIP/SLIDE	100%	20			N		
	10	FSB+TRACK		10			N		
	11	↓		20			N		
	12			10			N		
	13	ACCEL		50			S		
	14	↓		40			S		
	15	POWER CONSUMPTION		40			N		
	16	DUTY CYCLE BLENDED BRAKE						480	ADJUSTED FULL POWER VOLTAGE
	17	ACCEL	100%	50				660	
	18			50					TAPE A-18, B-18

SF 0003

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: PERFORMANCE & POWER CONSUMPTION SHEET 9 OF 9

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/24/76	37								TAPE A-18, B-18
	1	ACCEL		50	AW2	SF0003		680	
	2	POWER CONSUMPTION							
	3								
	4	DUTY CYCLE						750	672V ~ MAX ACCL. BLENDED BRAKE
	5	DUTY CYCLE						575	TAPE A-19 B-19 FRICTION ONLY BRAKE
	6	DECEL FRICTION ONLY		50					
6/25/76	38								
	1	ACCEL	100%	50	AW2	SF0003	N	575	
	2			50			S		
		POWER CONSUMPTION							
	3	DUTY CYCLE BLENDED							TAPE A-20, B-20
	4	DUTY CYCLE FRICTION ONLY							TAPE A-21 B-21

C. TOTAL TEST LOG ON CAR MB0002

SLRV ENGINEERING TEST RUN LOG

MB 0002

TYPE OF TEST: Performance, Noise & RFI

SHEET 1 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
1-9-76	1 1	ACCEL	100%	0-50	AWO	MB 0002	N		
	2	↓		↓			S		
	3						N		
	4			↓			S		
	5	F.S. BRAKE		50			N		
	6	↓		50			S		
	7			30			N		
	8	↓		30			S		
	9	EMERGENCY		30			N		
	10	"		30			S		
2-18-76	2 1	INTERIOR NOISE	—	0	AW3	MB 0002	/		
	2	↓		↓					
	3								
2-19-76	3	NOISE SURVEY	—	0	AW3	MB 0002	/		COUPLED TO SF0002
	1	U/C EQUIV WAYS.DB							
	2	"							
	3	INTERIOR							
	4	"							
	5	WAYSIDE (WEST)							
	6	" (EAST)							
	7	" (")							
	8	" "							
4/7/76	4	R.F.I		/	AWO	MB 0002			
	1								
		CHECKOUT		/					
	21	↓		/					
	22	INTERIOR SURVEY		30					
	48								
4/8/76	5	R.F.I			AWO	MB 0002			
	1								
	21	CHECKOUT							
	22	INTERIOR SURVEY		30					
		↓							
	66								
4/9/76	6	R F I			AWO	MB 0002			POWER SUPPLY SHORTED
		NO TESTS							

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RFI

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX on INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
4/14/76	7 1 2 3 ↓ 109	R.F.I EXTERIOR & INTERIOR SURVEYS		≤ 35	AWO	MB 0002			
4/15/76	8 1 2 3 ↓ 102	R.F.I EXTERIOR & INTERIOR SURVEYS.		≤ 35	AWO	MB 0002			EXTERIOR H. FIELD INTERIOR E-FIELD
4/16/76	9 1 2 3 ↓ 45	R.F.I WAYSIDE SURVEY AT 50 FT.	100%	≤ 50	AWO	MB 0002	S		WAYSIDE MEASUREMENT AT STA 290 — 50 FT. FROM TRACK ℄. (EAST)
4/19/76	10 1 ↓ 67 68 – 151	R.F.I WAYSIDE SURVEY AT 50 FT. AT 100 FT	100%	≤ 50	AWO	MB 0002	S		

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: RFI

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
4/20/76	11	R.F.I	100%	≤ 50	AWO / AW2	MB0002 / SF0002	S		2 CAR TRAIN. STN 290, 100 FT FROM TRACK & ON EAST SIDE
	1	WAYSIDE SURVEY AT 100 FT							
	2								
	3								
	92								
	93	W/S AT 100 FT			AWO	MB0002			
4/23/76	12	RFI			AWO / AW2	MB0002 / SF0002			
	1	WAYSIDE SURVEY AT 100 F (CHECKOUT ONLY)							
	4								TEST ABORTED.
5/5/76	13	RFI	~	50	AWO	MB0002	S		
	1	WAYSIDE 100 FT							
	22								
	23	WAYSIDE 50 FT							
	58								
	59	WAYSIDE 100 FT	~	50	AWO / AW2	MB0002 / SF0002	S		2CAR TRAIN
	69								
	70	WAYSIDE 50 FT							
	80								
	81	WAYSIDE 50 & 100 F	~	0	AW2	SF0002	S		
	110								

SLRV ENGINEERING TEST RUN LOG MB 0002

TYPE OF TEST: NOISE & POWER CONSUMPTION SHEET 4 OF 5

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX OR INITL. SPEED	CAR WEIGHT	CAR NO.	DIR— ECT.	LINE VOLTS	NOTES:
5/18/76	14	NOISE TEST WAYSIDE	—		AWO	MB 0002			
	1	AMBIENT		0					
	2	CONST VEL		50			S		A/C ON.
	3			50			S		
	4			40			S		
	5			40			S		
	6			30			S		
	7			30			S		
	8			20			S		
	9			20			S		
	10			10			S		
	11			10			S		
	12	AMBIENT							
	13	CONST VEL		50			S		A/C OFF
	14			50			S		
	15			40			S		
	16			40			S		
	17			30			S		
	18			30			S		
	19			20			S		
	20			20			S		
	21			10			S		
	22			10			S		
	23			0			S		
	24			0			S		
	25	AMBIENT							
5/19/76	15	POWER CONSUMPTION OF AUX. SYSTEMS	/	0	AWO	MB0002	—	~675V	
6/10/76	16	WAYSIDE NOISE			AWO	MB0002	—		
	1	AMBIENT	—	0					A/C OFF
	2	CONST SPEED		50			S		
	3			50			S		
	4			40			S		
	5			40			S		
	6			30			S		
	7			30			S		
	8			20			S		
	9			20			S		
	10			10			S		
	11			10			S		
	12			0					

SLRV ENGINEERING TEST RUN LOG

TYPE OF TEST: NOISE

DATE	TEST NO. REC NO.	TYPE OF TEST	"P" SIG	MAX or INITL. SPEED	CAR WEIGHT	CAR NO.	DIR-ECT.	LINE VOLTS	NOTES:
6/10/76 (cont	16 (cont)								
	13	Const Speed		50	AWD	MB0002	2		A/C on
	14			50			1		
	15			40			2		
	16			40			1		
	17			30			2		
	18			30			1		
	19			20			2		
	20			20			1		
	21			10			2		
	22			10			1		
	23			0			—		
	24			10			2		

APPENDIX I – DATA LOG

Collated by GVTP Test Number

Referencing – SLRV Test Number/Record Number

– Magnetic Tape Number

DATA LOG

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-2001	Acceleration Performance	AWO	58	1–4	–	2 Car
			37	4–8	A-5, B-3	
		AW2	59	1–4, 17, 18	–	2 Car
			23	6–12	A-2, B-2	
			31 (SF3)	6–9	A-15, B-15	2 Car
			25	1–10	A-2, B-2	(Volts min, max, normal)
		AW3	30 (SF3)	11–15	A-14, B-14	2 Car
			35	2	A-3, B-3	
			74	3, 4	A-8, B-8	
			68	22, 23	A-6, B-6	2 Car
			32 (SF3)	1–4	A-15, B-15	2 Car
			5	3–10	A-1, B-1	
P3001	Deceleration Blended Brks	AW0	37	11–23	A-3, B-3	
		AW2	23	17–27	A-2, B-2	
			82	3–18	A-9, B-9	2 Car
			86	4–7	A-11, B-11	2 Car
		AW3	69	1–18	A-6, B-6	
			74	1, 2	A-8, B-8	
			32 (SF3)	5–12	A-15, B-15	2 Car
			81	1–6	A-9, B-9	2 Car
			5	11–14, 16–20	A-1, B-1	
P-3002	Deceleration Friction Brks	AW0	37	24–29	A-3, B-3	
			38	1–12	A-4, B-4	
			66	6–11	A-5, B-5	2 Car

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-3002	Decleration Friction Brks	AWO	33 (SF3)	1–9	A-15, B-15	2 Car
		AW2	23	30–37	A-2, B-2	
			82	23–25	A-9, B-9	2 Car
			86	9–11	A-11, B-11	2 Car
		AW3	35	39–46	A-3, B-3	
			77	1–8	A-8, B-8	2 Car
P-3003	Deceleration Dynamic Brks	AW0	6	9–17	A-1, B-1	
			38	19–26	A-4, B-4	
			39	1–8	A-4, B-4	
			66	1–5	A-5, B-5	2 Car
		AW2	24	9–17	A-2, B-2	
			82	29–31	A-9, B-9	2 Car
		AW3	69	35–46	A-6, B-6	
			6	2–8		No mag tape
P-3004	Deceleration Emergency Brk	AW0	39	21–33	A-4, B-4	
			66	12–17	A-5, B-5	2 Car
		AW2	24	18–25	A-2, B-2	
			82	27, 28	A-9, B-9	2 Car
			34 (SF3)	11–20	A-15, B-15	
			31 (SF3)	1–5	A-15, B-15	2 Car
		AW3	35	5–24	A-3, B-3	
			77	2–7	A-8, B-8	2 Car
			81	7–15	A-9, B-9	2 Car (modified)

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
P-4001	Drift Test	AW0	–			
		AW2	26	4–9	A-3, B-3	
			86	17–23	A-11, B-11	2 Car
			25 (SF3)	1–8	A-16, B-16	
			30 (SF3)	2–9	A-14, B-14	2 Car
P-2011	Spin/Slide Acceleration	AW0	64	30–33	A-5, B-5	No Slips
			65	15–21	A-5, B-5	
P-3011	Spin/Slide Blended, Decl	AW0	64	14–29,34–37	A-5, B-5	
	Spin/Slide Friction Decl	AW0	64	4–13	A-5, B-5	
			63	5–23	A-5, B-5	
	Spin/Slide Emergency Decl	–	–	–	–	
PC-5011	Power Consumption (Blended Brks)	AW2	84	2	A-10, B-10	575V (nom)
			36 (SF3)	16	A-17, B-17	480V (nom)
			37 (SF3)	4	A-18, B-18	750V (nom)
			38 (SF3)	3	A-20, B-20	575V (nom)
			30 (SF3)	1	A-14, B-14	2 Car
	Power Consumption (Friction Brks)	AW2	37 (SF3)	5	A-19, B-19	
			38 (SF3)	4	A-21, B-21	
R-1101	Ride Roughness	AW1	55	5–12	A-7, B-7	Welded rail, concrete tie
		AW2	56	1–12	A-7, B-7	
		AW3	53	2–10	A-7, B-7	

DATA LOG (CONTINUED)

TEST SET NO.	TEST NAME	WEIGHT	TEST NO.	RECORD NO.	TAPE NOS.	NOTES
R-1101	Ride Roughness	AW2	56	17–30	A-7, B-7	Jointed rail/ wood ties
CN-0001-TT	Equip Noise W/S	AW0	49	43		
			51	1, 2		
CN-1001-TT	Car Speed W/S	AW3	52	1–12		
		AW0	60	1–16		2 car train with MB 0002
PN-1001-TT	Car Speed (Int)	AW0	50	2–4		
		AW3	52	13–20		
PN-1301-TT	Interior Survey	AW0	51	9–13		
		AW3	52	13–20		
		AW0	SF 0003			
			12	All		
PN-2001-TT	Accl Effect (Int)	AW0	51	7, 8		
		AW3	52	21–23		
PN-3001-TT	Decl Effect (Int)	AW0	51	7, 8		
		AW3	52	21–23		
PSI-6001-TT	Rad Freq Int	AW0	(MB 0002)			
			4–10, 13	–		Single car
		AW0/AW2	(MB 0002)			2 car train
			11–13	–		with SF 0002
		AW2	(SF 0003)			
			13–16, 23	–		Single car

APPENDIX II – DATA LOG

Collated by Magnetic Tape Number

Referencing – SLRV Test Number/Record

– GVTP Test Number

– IHRIG Time Identification*

* Certain runs have no identification made for IHRIG time of calibration inform ation. For these runs calibration data precedes the test run but is not collated with an IHRIG time.

MAG TAPE DATA LOG
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
1–A,B	P-3001	5	3–10	12/52/18 – 14/36/50	Decl, blended brks, AWO	1-37-28
	P-3002	5	11–20	14/59/15 – 15/46/20	Decl, friction brks, AWO	1-37-28
	P-3003	6	9–17	11/13/45 – 13/53/55	Decl, dynamic brks, AWO	11-6-0
	P-3004	5	21	16/0/15 – 16/0/25	Decl, emergency brks, AWO	1-37-28
2-A,B	P-2001	23	6–12	10/42/45 – 11/6/50	Accl, performance, AW2	
		25	1–10	9/38/58 – 10/52/54	Accl, performance, AW2	8-29-55
	P-3001	23	18–27	14/6/26 – 15/5/35	Decl, blended Brks, AW2	
	P-3002	23	30–37	15/26/15 – 15/37/50	Decl, friction brks, AW2	
	P-3003	24	9–17	10/17/28 – 11/5/45	Decl, dynamic brks, AW2	
	P-3004	24	18–25	11/14/55 – 13/47/30	Decl, emergency brks, AW2	
3-A,B	P-2001	37	4–8	13/20/35 – 13/36/43	Accl, performance, AW0	11-49-45
		35	2	9/49/41 – 9/50/23	Accl, performance, AW3	7-58-30
	P-3001	37	11–23	14/10/41 – 15/25/35	Decl, blended brks, AW0	11-49-45
	P-3002	37	24–29	15/32/35 – 15/53/12	Decl, friction brks, AW0	11-49-45
		35	39–46	15/14/13 – 15/45/20	Decl, friction brks, AW3	7-58-30
	P-3004	35	5–24	10/6/53 – 11/34/30	Decl, emergency brks, AW3	7-58-30
	P-4001	26	4–9	11/23/0 – 11/58/10	Drift test, AW2	
4-A,B	P-3002	38	1–12	10/22/00 – 10/45/26 13/39/09 – 14/05/19	Decl, friction brks, AW0	8-30-30
	P-3003	38	19–26	14/42/09 – 15/22/13	Decl, dynamic brks, AW0	8-30-30
		39	1–8	9/53/16 – 10/26/44	Decl, dynamic brks, AW0	8-00-50

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
4-A,B	P-3004	39	21–33	13/48/43 – 14/46/18	Decl, emergency brks, AW0	8-00-50
5-A,B	P-3002	66	6–11	13/48/41 – 14/48/38	Decl, friction brks, AW0, 2 car	7-59-35
	P-3003	66	1–5	11/26/00 – 11/55/34	Decl, dynamic brks, AW0, 2 car	7-59-35
	P-3004	66	12–17	15/01/50 – 15/32/41	Decl, emergency brks, AW0, 2 car	7-59-35
	P-2011	64	30–33	14/51/5 – 15/16/20	Spin/slide accel, AW0	7-16-45
		65	15–21	15/32/48 – 16/33/30	Spin/slide accel, AW0	7-43-30
	P-3011	64	14–29	11/29/45 – 14/46/15	Spin/slide decl blend, AW0	7-16-43
		64	34–37	15/21/5 – 15/23/45	Spin/slide decl blend, AW0	7-16-45
		64	4–13	9/50/25 – 11/22/48	Spin/slide decl friction, AW0	7-16-45
		63	5–23	11/4/38 – 15/48/40	Spin/slide decl friction, AW0	10-13-50
6-A,B	P-2001	68	22, 23	14/41/40 – 14/54/15	Accl, 2 car, AW3	8-2-10
	P-3001	69	1–18	9/6/12 – 10/1/49	Decl, blended brks, AW3	7-57-50
	P-3003	69	35–46	13/31/28 – 14/17/0	Decl, dynamic brks, AW3	7-57-50
7-A,B	R-1101	55	5–12	8/37/13 – 8/42/10	R/Q welded rail concrete tie, AW1	
		56	1–12		R/Q welded rail concrete tie, AW2	
		53	2–10	9/23/9 – 9/41/40	R/Q welded rail concrete tie, AW3	
8-A,B	P-2001	74	3, 4	11/17/47 – 11/26/15	Accl performance, AW3	9-22-6
	P-3001	74	1, 2	11/7/50 – 11/11/10	Decl blended brks, AW3	9-22-6

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
8-A,B	P-3004	77	2–8	10/15/15 – 10/36/55	Decl emerg brk, AW3, 2 car	9-57-42
9-A,B	P-3001	82	3–18	9/1/25 – 10/53/40	Decl blended brks, AW2, 2 car	8-3-00
		81	1–6	No time on record	Decl blended brks, AW3, 2 car	10-10-43
	P-3002	82	23–25	11/25/30 – 14/6/5	Decl friction brks, AW2	8-3-00
	P-3003	82	29–31	14/41/25 – 14/59/48	Decl dynamic brks, AW2, 2 car	8-3-00
	P-3004	82	27, 28	14/22/5 – 14/30/45	Decl emergency brks, AW2, 2 car	8-3-00
		81	8–15	14/54/5 – 15/32/35	Decl mod emergency brks, AW3, 2 car	10-10-43
10-A,B	P-5011	84	2	8/23/50 – 9/22/45	Power consumption blend brk, AW2	11-30-47
11-A,B	P-3001	86	4–7 14–16	7/41/22 – 7/58/16 8/30/43 – 8/26/28	Decl blended brk, AW2, 2 car	
	P-3002	86	9–11	8/6/30 – 8/18/7	Decl friction brk, AW2, 2 car	
	P-4001	86	17–23	9/1/40 – 9/55/25	Drift test, AW2, 2 car	
14-A,B	PC-5011	30	1	9/5/30 – 10/00/09	Power consumption, AW2, 2 car	
	P-4001	30	2–9	10/31/55 – 11/15/20	Draft test, AW2, 2 car	
15-A,B	P-2001	30	11–15	11/29/55 – 11/46/55	Accl, performance, AW2, 2 car	
		31	6–9	9/26/10 – 10/23/25	Accl, performance, AW2, 2 car	
		32	1–4	7/27/0 – 7/46/10	Accl, performance, AW3, 2 car	
	P-3001	32	5–12	7/57/0 – 8/14/45	Decl, blended, AW3, 2 car	
		33	1–9	7/9/40 – 7/36/57	Decl, friction AW0, 2 car	
	P-3004	31	1–5	7/25/5 – 8/10/35	Decl, emergency, AW2, 2 car	
		34	11–20	15/6/38 – 15/27/25	Decl, emergency, AW2	

MAG TAPE DATA LOG (CONTINUED)
(FROM CAR SF 0002)

TAPE NO.	TEST SET	TEST NO.	RECORD NO.	TIME SPAN (IHRIG)	NOTES	CALIBRATION (IHRIG START)
16-A,B	P-4001	25	1–8	14/52/5 – 15/20/45	Drift test, AW2	13-40-0
17-A,B	PC-5011	36	16	14/9/50 – 16/6/05	Power Consumption, AW2, (480V) (Blended)	8-32-00
18-A,B	PC-5011	37	4	14/24/40 – 16/25/10	Power Consumption AW2, (750V) (Blended)	8-05-20
19-A,B	PC-5011	37	5	16/44/50 – 17/50/10	Power Consumption AW2, (575V) (Friction)	8-05-20 (on tape 18)
20-A,B	PC-5011	38	3	9/45/45 – 10/51/45	Power Consumption, AW2 (575V) (Blended)	
21-A,B	PC-5011	38	4	13/59/20 – 14/53/45	Power Consumption, AW2 (575V) (Friction)	

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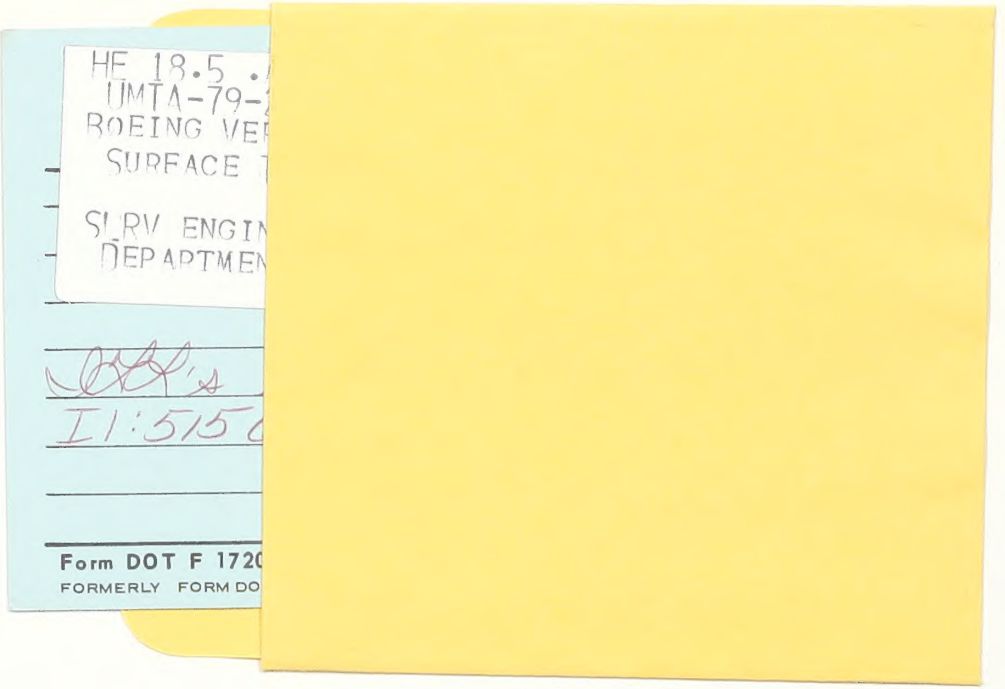
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